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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/630,055	08/01/2000	Kent K. Leung	CISCP149/2210	6261

22434 7590 06/07/2004
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EXAMINER

NGUYEN, VAN KIM T

ART UNIT	PAPER NUMBER
2661	

DATE MAILED: 06/07/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/630,055

Applicant(s)

LEUNG ET AL.

Examiner

Van Kim T. Nguyen

Art Unit

2661

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 August 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-38 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-2, 5-13, 26, 28-38 is/are rejected.
- 7) ☒ Claim(s) 3,4,14-25 and 27 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

DETAILED ACTION

This Office Action is responsive to communications filed on September 4, 2001.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-2 and 37 are rejected under 35 U.S.C. 102(e) as being anticipated by Liroy (US 6,665,537).

As shown in Figures 1-4, Liroy discloses a method of registering a mobile node without assigning an IP address, comprising: determining whether the mobile node requires an IP address using a first indicator in a registration packet (check IP address option); when it is determines that the mobile nodes does not requires an IP address (IP address option is set to all zeros), sending a registration reply packet containing a second indicator (Config-ACK) indicating that an IP address is not assigned to the mobile node; and when it is determines that the mobile node requires an IP address, assigning an IP address to the mobile node and sending to the mobile node a registration reply packet (Config_NAK) containing the IP address (col. 6: lines 22-31).

Claim Rejections - 35 USC § 102

Claims 5-13, 26, 28-36, and 38 are rejected under 35 U.S.C. 102(e) as being anticipated by Das et al (US 6,742,036).

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As shown in Figure 1, Das discloses receiving a name lookup packet for a name lookup from a lookup requester (UAS/PN), wherein the name lookup packet includes a lookup name (user identification); composing a lookup notification packet (request) indicating that a name lookup for a mobile node corresponding to the lookup name in the lookup packet has been received by the HA (col. 3: line 8-11); sending a reply packet to the lookup requester indicating a status of the name lookup (whether access authorization is confirmed, col. 3: lines 20-30).

Das also discloses the principle of mobile IP in which FA makes routing services available to the MN: forwarding the packets coming from the HA as well as a router function for packets coming from the MN (col. 4: lines 4-16), thus it is inherent that FA would forward the lookup notification packet from the HA to the mobile node and the lookup acknowledgement packet from the mobile node to the HA.

Regarding claims 6-7, Das also discloses authenticating the name lookup packet from the lookup requester (col. 3: lines 4-), and the name lookup packet includes a lookup requester name (subscriber identity, col. 3: lines 8-11).

Regarding claims 8 and 34-35, Das also discloses prior to composing the lookup notification packet, looking up the lookup requester in a lookup requester table (DNS, col. 3: line 11-19).

Regarding claims 9-11, Das also discloses the lookup requester is a domain name server and (UAS/PN, SA) the lookup name corresponds to one or more mobile nodes (col. 4: lines 4-17), and compatible with a protocol used by a domain name server (col. 3: lines 11-19).

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Regarding claims 12-13, Das also discloses the lookup name refers to one or more physical devices (terminal, access node, UAS/PN, SA) capable of receiving the lookup notification packet (col. 4: lines 42 – col. 5: line 32).

Regarding claims 28, and 30-31, Das also discloses after receiving the lookup acknowledgement from the mobile node via the FA, establishing a data path (communication path, tunnel) between the HA and the FA wherein the datapath is used by the HA to send data packets sent to the mobile node from a corresponding node (col. 5: lines 1-18).

Allowable Subject Matter

Claims 3-4, 14-25, and 27 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Das et al (US 6,742,036); Chuah et al (US 6,665,718); Khalil et al (US 6,578,085); Redlich (US 6,591,306); Inoue et al (US 6,587,882); Rai et al (US 6,577,643); Peirce, Jr, et al (US 6,542,992); Inoue et al (US 6,510,153); Leung (US 6,501,746); Chiou et al (US 6,473,413); Dynarski et al (US 6,466,571), and Hiller et al (US 6,445,922).


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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Van Kim T. Nguyen whose telephone number is 703-305-7692. The examiner can normally be reached on 8:00 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Douglas W. Olms can be reached on 703-305-4703. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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